# Restoration

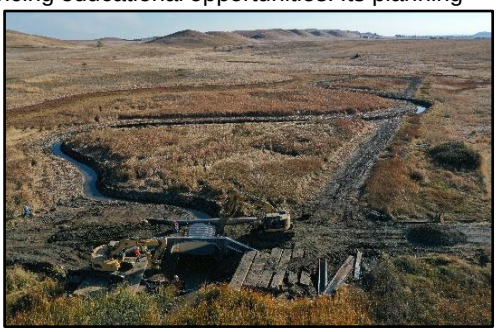
*Webinar Series*

## Webinar Schedule (September – December 2021)

**September 30 (2-3 pm ET): Understanding Habitat Evolution to Inform Restoration Planning** – Lindsey Sheehan (ESA) and Dane Behrens (ESA). Multiple tools have been developed to analyze how coastal habitats may evolve in the future as sea level rises and they can offer general guidance on where to focus restoration efforts. In California's coastal lagoons, the lagoon mouth dynamics are a complex driver of the habitats that can establish and how those dynamics are expected to change with sea-level rise.

**October 21 (2-3 pm ET): Science Based Salt Marsh Ecosystem Restoration in Elkhorn Slough, Monterey, California –** Monique Fountain (Elkhorn Slough NERR). Over the past 150 years, human actions have altered the tidal, freshwater, and sediment processes that are essential to support healthy ecosystems at Elkhorn Slough. Large areas of tidal marshes were diked and drained in the 20th century. This caused subsidence and when dikes failed, the areas were too low to support healthy marsh. In these previously diked areas the salt marsh habitat is almost entirely gone. In addition to this habitat degradation, modeling suggests most of Elkhorn Slough's remaining marshes will be lost within 50 years due to sea-level rise. Over 400,000 cubic yards of soil is being used to bring the marsh up to a sustainable elevation, high in the tidal frame. Restoring this degraded habitat highlights the importance of a collaborative, interdisciplinary approach to restoring sustainable habitat for the future.

**November 4 (2-3 pm ET): Restoration of Lower Spring Branch Creek, Rush Ranch Open Space Preserve Component of the San Francisco Bay National Estuarine Research Reserve –** Stuart Siegel (SF Bay NERR). This restoration project at Rush Ranch in the San Francisco Bay National Estuarine Research Reserve reconnects the watershed and tidal marsh – restoring migration space, rare plant habitats, and fish passage while maintaining public access and enhancing educational opportunities. Its planning and implementation offer a range of lessons learned around grants, regulatory process, science integration, and sea level rise accommodation.



**December 2 (2-3 pm ET): Measuring the effectiveness of Seattle's seawall enhancements on juvenile salmon-an acoustic perspective –** Kerry Accola (University of Washington). Seattle's new eco-engineered seawall is modified to create habitat more amenable to migrating juvenile salmon. This research is part of the first post-construction assessment and utilizes a newer tool (an acoustic camera) to quantify young salmon, while incorporating the first in-depth study of nighttime fish distributions along the Seattle waterfront.

Visit the Restoration Webinar Series page for more information and how to register.

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